

NESDI Program Releases FY16 Year in Review Report

Report Features Newly-Launched Initiatives

THE NAVY ENVIRONMENTAL Sustainability Development to Integration (NESDI) program has released its Year in Review report for fiscal year (FY) 2016 which underscores the program's commitment to integrating the technologies, enhanced industrial processes and other results of its projects into Navy operations.


The report contains a financial review of program expenditures as well as insights into projects that were particularly successful in demonstrating the use of an innovative technology or collecting critical information to enhance the efficiency of Navy environmental management programs. The report also features the following 15 initiatives as the program's FY16 "new start" projects:



1. Stable Carbon Isotopes for Tracing In Situ RDX Remediation (project no. 537)
2. Development of Advanced Primer and Superhydrophobic Topcoat for Corrosion Resistance and Leachate Impedance (project no. 538)
3. Forward Looking Infrared (FLIR) for Advanced Discharge Characterization (project no. 539)

4. Smart Electronic Tools for Navy Environmental Compliance Monitoring and Reporting (project no. 540)
5. Utility Vault Water Treatment (project no. 541)
6. Naval Air Systems Command Solutions for Engine Washing (project no. 542)
7. Preventative Management of Contaminated Silt (project no. 543)
8. Stable-Isotope Labeled Tracers, an Innovative Way to Validate Natural Attenuation of RDX in Groundwater (project no. 544)
9. In Situ Treatment of 1,4-Dioxane Using Enhanced Biodegradation (project no. 545)
10. National Pollutant Discharge Elimination System (NPDES) Copper Effluent Control System (project no. 546)
11. Demonstration of Improved Toxicity Methodology to Link Stormwater Discharges to Receiving Water Impacts at Navy Sites (project no. 547)
12. Sewer Gas Elimination Technology (project no. 548)
13. Demonstration of Optimized non-NMP (n-Methyl-2-pyrrolidone) Solvents for Immersion Chemical Depainting (project no. 549)
14. A Comprehensive Analysis and Strategy for Contaminated Sediment Management (project no. 550)
15. Impact of Sediment Resuspension by Propeller Wash and Shore Sediment Dynamics on Remediation Options (project no. 551)

The NESDI program is the Navy's environmental research and development demonstration and validation program, sponsored by the Chief of Naval Operations Energy and Environmental Readiness Division and managed by the Naval Facilities Engineering Command.

An electronic (pdf) version of all Year in Review reports can be downloaded from the program's website at <https://epl.navfac.navy.mil/nesdi>. (A Common Access Card is required for access.) For a hardcopy of the FY16 report, contact Lorraine Wass at 207-384-5249 or ljwass@outlook.com. 

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Register Now for 2017 SERDP & ESTCP Symposium

Program Includes Technical Sessions & Training Opportunities

FOLLOWING A FIVE-YEAR hiatus, the Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP) Symposium is back.



The Symposium will be held November 28–30, 2017 at the Washington Hilton in Washington, D.C. and will highlight the programs' recent efforts to enhance mission capabilities, reduce costs in times of increasing fiscal constraints and improve environmental and energy performance.

An introductory plenary session will be followed by a comprehensive technical program consisting of concurrent technical sessions and short courses covering a variety of scientific and technical topics. Attendees will have numerous opportunities to tour more than 450 posters and exhibit booths and network with approximately 1,200 environmental professionals. Technical exchange networking receptions will be held both Tuesday and Wednesday evening in conjunction with the poster sessions.

Technical Sessions

Sixteen technical sessions will highlight research and innovative technologies that improve the Department of Defense's (DoD) environmental performance, reduce costs and enhance mission capabilities. The following are this year's topics:

- Advanced Species Management: Military Lands in the Regional Context
- Chlorinated Solvents: Challenges and Progress
- Contaminated Sediments: Management Options
- Cost-Effective, Cutting-Edge Building Efficiency Technologies: Lighting, HVAC and Controls
- Energetic Materials: Alternative Materials and Processes

- Energy Information and Cybersecurity: Key to Smart and Secure Installation Operation and Investment
- Hexavalent Chromium and Cadmium: Alternatives for Plating Processes
- Insensitive Munitions: Safe & Sustainable
- Marine Mammal Retrospective: Linking Behavioral Responses to Population-Level Effects
- Microgrids: Building a Flexible, Secure and Resilient Base for Today and Tomorrow
- Pacific and Arctic Environments: Unique Importance and Challenges
- Per- and Polyfluoroalkyl Substances (PFAS): Treatments to Replacements
- Sustainable Alternatives to Current Military Finishing Systems
- Underwater Unexploded Ordnance (UXO): Systems for Detection and Classification
- Underwater UXO: Burial and Mobility
- Vapor Intrusion: Pathways to Solutions

Short Courses

Short courses will offer unique training opportunities on emerging technologies and methods in environmental restoration and munitions response. Professional development hours will be offered for participation in short courses. Attendance for these short courses will be limited, and advanced registration for each short course is required. The following are this year's short course topics:

- Contaminant Flux and Fate in Fractured Bedrock
- Geophysics for Environmental Characterization and Monitoring at DoD Sites
- Transition of Corrosion-Resistant Electrocoat Application Process into the Military Aviation Community
- Transitioning New Tools to Practice, Environmental DNA Methods and Protocols
- PFASs at Military Sites
- Emerging Regulatory Trends: Potential Impacts of TSCA and REACH to the DoD Mission


- Development of Cold Spray Technology for Additive Manufacturing
- Scenario-Based Coastal Risk Management
- Training System for Reducing Costs of Remediation and Long-Term Management of Contaminated Sites
- International Dimensions: Overseas Environmental Topics
- Sustainability Analysis: Capturing Life Cycle Impacts and Costs in Defense Systems

About SERDP and ESTCP

SERDP is DoD's environmental science and technology program, executed in partnership with the Department of Energy and the U.S. Environmental Protection Agency. SERDP invests across a broad spectrum of basic and applied research and advanced development. ESTCP is DoD's environmental and installation energy technology

demonstration and validation program. The program's goal is to identify and demonstrate cost-effective technologies that address DoD's highest priority environmental and installation energy requirements. Both programs address DoD environmental and installation energy needs in the Energy and Water, Environmental Restoration, Munitions Response, Resource Conservation and Resiliency, and Weapons Systems and Platforms areas.

To register for the Symposium, visit www.symposium.serdp-estcp.org.

For additional information or to register for the Symposium, visit www.symposium.serdp-estcp.org. 

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Everyone has a story to tell. Tell yours in *Currents*!

The deadline for our fall 2017 issue is July 21, 2017.

Have some good news about your energy or environmental program? *Currents* is the place to tell your story. *Currents*, the Navy's official energy and environmental magazine, has won first place in the Navy's Chief of Information (CHINFO) Merit awards competition three times. It is people like you and the stories you submit that make *Currents* the best magazine in the Navy.

If you have a story that you'd like to promote in our fall 2017 issue, submit your text and images by Friday, July 21, 2017. Any submissions received after this date will be considered for our winter 2017-18 issue.

You can get a copy of the *Currents* article template by sending an email to Bruce McCaffrey, our Managing Editor, at brucemccaffrey@sbcglobal.net. This template has proven to be a tremendous asset in helping us edit and track your article submissions. Bruce is also available at 773-376-6200 if you have any questions or would like to discuss your story ideas. And don't worry. If writing isn't one of your strengths, we'll handle all of the editing necessary to get your submission into publishable form.

As a reminder, your Public Affairs Officer must approve your article before we can consider it for inclusion in the magazine.

Don't forget to "like" us on Facebook at www.facebook.com/navycurrents. *Currents'* Facebook page helps expand the reach of the magazine and spread the news about all the great work you're doing as the Navy's energy and environmental guardians.

Currents Deadlines

Fall 2017 Issue: July 21, 2017
Winter 2017-18: October 20, 2017
Spring 2018: January 19, 2018
Summer 2018: April 20, 2018

You can also refer to your 2016-18 *Currents* calendar for reminders about these deadlines.